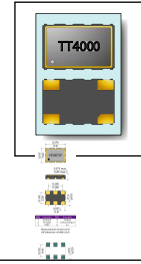


# TT-VT4000 Crystal Oscillator

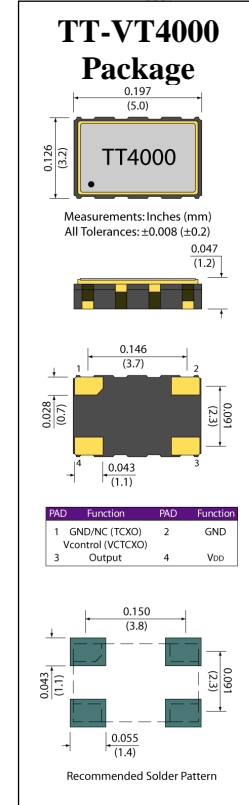


**FEATURES:**  
Clipped Sine  
Ceramic Package

**Low Stability**  
**5.0 x 3.2 x 1.2 mm**



Parameter	Unit	Min.	Max.
Frequency Range	MHz	10	40
Frequency Tolerance at 25°C	ppm	-	±2.0
Frequency Stability			
Vs. Supply Voltage (±5%) change	ppm	-	±0.5
Vs. Load (±10%) change	ppm	-	±0.2
Vs. Aging	ppm	-	±1.0
Current Consumption	mA	-	3.5
Storage Temperature Range	°C	-55	+125
Voltage		3.3, 5.0 ±5%	
Output Waveform		Clipped Sine	
Output Level	Vp-p	0.8	-
Load		10KOhms//10pF	
Control Voltage Range (VCTCXO)	V	0.5	2.5
Frequency Deviation (VCTCXO)	ppm	±5	±15
VC Input Impedance (VCTCXO)	KOhms	500	-
Start-up Time	mSec	-	2
Phase Noise			
@ 100 Hz	dBc/Hz	-115 typical	
@ 1 kHz	dBc/Hz	-135 typical	
@ 10 kHz	dBc/Hz	-148 typical	



### Frequency Stability vs. Temperature Range

Temperature	Stability (ppm)
-10 to 60°C	±0.5, ±1.0
-20 to 70°C	±0.5, ±1.0
-40 to 85°C	±1.0

### Environmental

Terminal Material	W
Terminal Plating	Ni-Au
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1



**Example Part Number:** VT4000-A-18-A-27-24M576

VT4000	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4		5
		<b>Stability</b>		<b>Voltage</b>		<b>Pull Range</b>		<b>Temp. Range</b>		<b>Frequency</b>
		A = ±1.0		50= 5.0 V		A = ±15		16= -10 to 60°C		Frequency in MHz
		B = ±0.5		33= 3.3 V		B = ±10		27= -20 to 70°C		i.e. 24M576
						C = ±8		48= -40 to 85°C		use M for decimal point
						D = ±5				
						T = TCXO				